

# Clinical Infectious Diseases

Volume 34 • Number 1

1 January 2002

i 1 January News

## MAJOR ARTICLES

- 1 **Herpes Simplex Virus Lymphadenitis: Case Report and Review of the Literature**  
Mallory D. Witt, Mauro S. Torno, Nora Sun, and Tomiko Stein
- 7 **Defining Opportunistic Invasive Fungal Infections in Immunocompromised Patients with Cancer and Hematopoietic Stem Cell Transplants: An International Consensus**  
S. Ascioglu, J. H. Rex, B. de Pauw, J. E. Bennett, J. Bille, F. Crokaert, D. W. Denning, J. P. Donnelly, J. E. Edwards, Z. Erjavec, D. Fiere, O. Lortholary, J. Maertens, J. F. Meis, T. F. Patterson, J. Ritter, D. Selleslag, P. M. Shah, D. A. Stevens, and T. J. Walsh, on behalf of the Invasive Fungal Infections Cooperative Group of the European Organization for Research and Treatment of Cancer and Mycoses Study Group of the National Institute of Allergy and Infectious Diseases
- 15 **Geographic, Demographic, and Seasonal Differences in Penicillin-Resistant *Streptococcus pneumoniae* in Baltimore**  
Bernadette A. Albanese, Jeffrey C. Roche, Margaret Pass, Cynthia G. Whitney, M. Catherine McEllistrem, and Lee H. Harrison for the Maryland Emerging Infections Program
- 22 **The Serological Response of Patients Infected with the Agent of Human Granulocytic Ehrlichiosis**  
Johan S. Bakken, Irina Haller, Debbie Riddell, Jennifer J. Walls, and J. Stephen Dumler
- 28 **Extension of the Lancefield Classification for Group A Streptococci by Addition of 22 New M Protein Gene Sequence Types from Clinical Isolates: *emm103* to *emm124***  
Richard F.acklam, Diana R. Martin, Marguerite Lovgren, Dwight R. Johnson, Androulla Efstratiou, Terry A. Thompson, Sonia Gowan, Paula Kriz, Gregory J. Tyrrell, Edward Kaplan, and Bernard Beall
- 39 **Molecular Detection of Rifampin and Ofloxacin Resistance for Patients Who Experience Relapse of Multibacillary Leprosy**  
Emmanuelle Cambau, Pascale Bonnafous, Evelyne Perani, Wladimir Sougakoff, Baohong Ji, and Vincent Jarlier
- 46 **The Value of Suction Drainage Fluid Culture during Aseptic and Septic Orthopedic Surgery: A Prospective Study of 901 Patients**  
L. Bernard, B. Pron, A. Vuagnat, V. Gleizes, F. Signoret, P. Denormandie, A. Si-Ali, C. Perrone, J. M. Feron, J. L. Gaillard, and the Groupe d'Etude sur l'Ostéite

- 50 **Higher Occurrence of Hepatotoxicity and Rash in Patients Treated with Oxacillin, Compared with Those Treated with Nafcillin and Other Commonly Used Antimicrobials**  
Nizar F. Maraqa, Margarita M. Gomez, Mobeen H. Rathore, and Ana M. Alvarez
- 55 **Effect of Changes in Antibiotic Prescribing on Patient Outcomes in a Community Setting: A Natural Experiment in Australia**  
Justin Beilby, John Marley, Don Walker, Nicole Chamberlain, and Michelle Burke for the FIESTA Study Group

## REVIEW ARTICLE

- 65 **Postarthroscopy Surgical Site Infections: Review of the Literature**  
Hilary M. Babcock, Matthew J. Matava, and Victoria Fraser

## VIEWPOINTS

- 72 **"Endgame" Issues for the Global Polio Eradication Initiative**  
Technical Consultative Group to the World Health Organization on the Global Eradication of Poliomyelitis

## PHOTO QUIZ

- 78 **Complicated Urinary Tract Infection in a Diabetic Woman**

## CONFRONTING BIOLOGICAL WEAPONS

- 79 **Countering the Posteradication Threat of Smallpox and Polio**  
D. A. Henderson

## TRAVEL MEDICINE

- 84 **Meningococcal Disease and Travel**  
Ziad A. Memish

## HIV/AIDS

- 91 **Reservoirs of Human Immunodeficiency Virus Type 1: The Main Obstacles to Viral Eradication**  
Roger J. Pomerantz
- 98 **Ischemic Cardiovascular Disease in Persons with Human Immunodeficiency Virus Infection**  
Max H. David, Richard Hornung, and Carl J. Fichtenbaum
- 103 **Focal Neurological Disease in Patients with Acquired Immunodeficiency Syndrome**  
Daniel J. Skiest

- 116 **Detection of a Drug-Resistant Human Immunodeficiency Virus Variant in a Newly Infected Heterosexual Couple**  
Laura Romano, Giulietta Venturi, Angela Vivarelli, Luisa Galli, and Maurizio Zazzi
- 118 **Chagasic Meningoencephalitis in a Patient with Acquired Immunodeficiency Syndrome: Diagnosis, Follow-Up, and Genetic Characterization of *Trypanosoma cruzi***  
Eliane Lages-Silva, Luis Eduardo Ramirez, Mario Leon Silva-Vergara, and Egler Chiari

#### ANSWER TO PHOTO QUIZ

- 124 **Complicated Urinary Tract Infection in a Diabetic Woman**

#### CORRESPONDENCE

- 126 ***Salmonella typhi* in the Past Decade: Learning to Live with Resistance**  
Camilla Rodrigues, Ajita Mehta, and V. R. Joshi
- 127 **Schizophrenia and Serological Methods for Diagnosis of Toxoplasmosis**  
Francis Derouin, Philippe Thulliez, and Stéphane Romand
- 127 **Reply**  
Robert H. Yolken
- 129 **Rendering Beef Safe**  
Peter Horby
- 130 **Rotavirus Cerebellitis?**  
Lise E. Nigrovic, Carey Lumeng, Christopher Landrigan, and Vincent W. Chiang
- 130 **Infectious Disease Pathology and the Autopsy**  
Kurt B. Nolte

- 131 **Reply**  
Gary W. Procop
- 131 **Kawasaki-like Syndrome: Abacavir Hypersensitivity?**  
Joseph G. Toerner and Therese Cvetkovich

- 132 **Reply**  
Raymond M. Johnson and Gregory A. Storch

#### 134 ELECTRONIC ARTICLES

**Diagnosis of *Streptococcus pneumoniae* Lower Respiratory Infection in Hospitalized Children by Culture, Polymerase Chain Reaction, Serological Testing, and Urinary Antigen Detection**  
Ian C. Michelow, Juanita Lozano, Kurt Olsen, Collin Goto, Nancy K. Rollins, Faryal Ghaffar, Violeta Rodriguez-Cerrato, Maija Leinonen, and George H. McCracken, Jr.

**Immediate Hypersensitivity Reactions after Use of Tuberculin Skin Testing**  
James E. Froeschle, Frederick L. Ruben, and A. Michael Bloh

**Esophageal Ulceration Due to Cytomegalovirus Infection in a Patient with Acute Retroviral Syndrome**  
Nicholas J. Vietri, Peter J. Skidmore, and David P. Dooley

***Mycoplasma pneumoniae* Pericarditis Demonstrated by Polymerase Chain Reaction and Electron Microscopy**  
Maria Szymanski, Martin Petric, Frederick E. Saunders, and Raymond Tellier

**African Sleeping Sickness in Tourists Returning from Tanzania: The First 2 Italian Cases from a Small Outbreak among European Travelers**  
Diego Ripamonti, Marco Massari, Claudio Arici, Ermanno Gabbi, Claudio Farina, Maria Brini, Carlo Capatti, and Fredy Suter

Volume 34 • Number 2

15 January 2002

i 15 January News

#### MAJOR ARTICLES

- 135 **Molecular Correlation for the Treatment Outcomes in Bloodstream Infections Caused by *Escherichia coli* and *Klebsiella pneumoniae* with Reduced Susceptibility to Ceftazidime**  
Annie Wong-Beringer, Janet Hindler, Michael Loeloff, Anne Marie Queenan, Nancy Lee, David A. Pegues, John P. Quinn, and Karen Bush
- 147 **Immunogenicity and Safety of Pneumococcal Vaccination in Patients with Rheumatoid Arthritis or Systemic Lupus Erythematosus**  
Ori Elkayam, Daphna Paran, Dan Caspi, Irena Litinsky, Michael Yaron, Darlene Charboneau, and Jeffrey B. Rubins
- 154 **Clarithromycin Versus Azithromycin in the Treatment of Mediterranean Spotted Fever in Children: A Randomized Controlled Trial**  
Antonio Cascio, Claudia Colomba, Spinello Antinori, David L. Paterson, and Lucina Titone
- 159 **Enterococcal Endocarditis in Sweden, 1995–1999: Can Shorter Therapy with Aminoglycosides Be Used?**  
Lars Olaison and Kimmo Schadewitz for the Swedish Society of Infectious Diseases Quality Assurance Study Group for Endocarditis
- 167 **High Rate of False-Negative Results of the Rectal Swab Culture Method in Detection of Gastrointestinal Colonization with Vancomycin-Resistant Enterococci**  
Erika M. C. D'Agata, Shiva Gautam, William K. Green, and Yi-Wei Tang

- 173 **Increased Sensitivity of DNA Amplification Testing for the Detection of Pharyngeal Gonorrhea in Men Who Have Sex with Men**  
Kimberly Page-Shafer, Alison Graves, Charlotte Kent, Joyce E. Balls, Virginia M. Zapitz, and Jeffrey D. Klausner

- 177 **Polymerase Chain Reaction Is More Sensitive than Viral Culture and Antigen Testing for the Detection of Respiratory Viruses in Adults with Hematological Cancer and Pneumonia**  
Leontine J. R. van Elden, Marian G. J. van Kraaij, Monique Nijhuis, Karin A. W. Hendriksen, Ad W. Dekker, Maja Rozenberg-Arska, and Anton M. van Loon

- 184 **Group B *Streptococcus* Colonization in Male and Nonpregnant Female University Students: A Cross-Sectional Prevalence Study**  
Sandra J. Bliss, Shannon D. Manning, Patricia Tallman, Carol J. Baker, Mark D. Pearlman, Carl F. Marrs, and Betsy Foxman

- 191 **Concentration and Avidity of Anti-*Haemophilus influenzae* Type b (Hib) Antibodies in Serum Samples Obtained from Patients for Whom Hib Vaccination Failed**  
Mijke A. Breukels, Els M. Jol-van der Zijde, Maarten J. D. van Tol, and Ger T. Rijkers

#### HISTORICAL ARTICLE

- 198 **Evarts Ambrose Graham, Empyema, and the Dawn of Clinical Understanding of Negative Intrapleural Pressure**  
Fionnuala Cormack Aboud and Abraham C. Verghese

#### REVIEW ARTICLE

- 204 **Influence of Interleukin-1 Receptor Antagonist Gene Polymorphism on Disease**  
Steven S. Witkin, Stefan Gerber, and William J. Ledger

#### PHOTO QUIZ

- 210 **Purple Discoloration in a Urinary Catheter Bag**

#### AGING AND INFECTIOUS DISEASES

- 211 ***Staphylococcus aureus* Infections and Antibiotic Resistance in Older Adults**  
Suzanne F. Bradley

#### CONFRONTING BIOLOGICAL WEAPONS

- 217 **Bioterrorism and the People: How to Vaccinate a City against Panic**  
Thomas A. Glass and Monica Schoch-Spana

#### HIV/AIDS

- 224 **Clinical Indicators of Immune Restoration following Highly Active Antiretroviral Therapy**  
Elizabeth L. Cooney

- 234 **The Effect of Garlic Supplements on the Pharmacokinetics of Saquinavir**  
Stephen C. Piscitelli, Aaron H. Burstein, Nada Welden, Keith D. Gallicano, and Judith Falloon

- 239 **Impact of Discontinuation of Initial Protease Inhibitor Therapy on Further Virological Response in a Cohort of Human Immunodeficiency Virus-Infected Patients**  
Vincent Le Moing, Geneviève Chêne, Catherine Leport, Charlotte Lewden, Ségolène Duran, Michel Garré, Bernard Masquelier, Michel Dupon, François Raffi, and the Antiprotéases Cohorte (APROCO) Study Group

- 248 **Clinical Evaluation and Management of Metabolic and Morphologic Abnormalities Associated with Human Immunodeficiency Virus**  
Christine A. Wanke, Julian M. Falutz, Abby Shevitz, John P. Phair, and Donald P. Kotler

- 260 **Prevalence and Cumulative Incidence of and Risk Factors for Anemia in a Multicenter Cohort Study of Human Immunodeficiency Virus-Infected and -Uninfected Women**  
Richard D. Semba, Nina Shah, Robert S. Klein, Kenneth H. Mayer, Paula Schuman, and David Vlahov, for the Human Immunodeficiency Virus Epidemiology Research Study Group

- 267 **Human Immunodeficiency Virus (HIV)-Specific Cellular Immune Responses in Newborns Exposed to HIV In Utero**  
Louise Kuhn, Stephen Meddows-Taylor, Glenda Gray, and Caroline Tiemessen

- 277 **A Controlled Trial of Itraconazole as Primary Prophylaxis for Systemic Fungal Infections in Patients with Advanced Human Immunodeficiency Virus Infection in Thailand**  
Suwat Chariyalertsak, Khuanchai Supparatpinyo, Thira Sirisanthana, and Kenrad E. Nelson

#### ANSWER TO PHOTO QUIZ

- 285 **Purple Discoloration in a Urinary Catheter Bag**

#### CORRESPONDENCE

- 287 **Encephalitis Caused by Epstein-Barr Virus in a Renal Transplant Recipient**  
Iñigo Garamendi, Miguel Montejo, Laura Cancelo, Leire Lopez, Koldo Aguirrebengoa, Alex Martín, and Sofia Zarraga
- 288 **HIV Lipoatrophy and Mosquito Bites**  
Gilbert Greub, Jacques Fellay, and Amalio Telenti
- 289 **Recurrent Nonmenstrual Toxic Shock**  
Lawrence A. Cone, Richard G. Byrd, Karl Schulz, and Patrick M. Schlievert

- 289 **Antifungal Prophylaxis and the Rate of Bacteremia among Neutropenic Patients**  
Claudio Viscoli and Marianne Paesmans, for the International Antimicrobial Therapy Cooperative Group of the European Organization for Research and Treatment of Cancer

- 291 **Origins of Tuberculosis in North America**  
Thomas M. Daniel

- 292 **Errata**

Volume 34 • Number 3

1 February 2002

i 1 February News

**MAJOR ARTICLES**

- 293 **Discriminators between Hantavirus-Infected and -Uninfected Persons Enrolled in a Trial of Intravenous Ribavirin for Presumptive Hantavirus Pulmonary Syndrome**  
L. E. Chapman, B. A. Ellis, F. T. Koster, M. Sotir, T. G. Ksiazek, G. J. Mertz, P. E. Rollin, K. F. Baum, A. T. Pavia, J. C. Christenson, P. J. Rubin, H. M. Jolson, R. E. Behrman, A. S. Khan, L. J. Wilson Bell, G. L. Simpson, J. Hawk, R. C. Holman, C. J. Peters, and the Ribavirin Study Group
- 305 **Postoperative Bacteremia Secondary to Surgical Site Infection**  
Cathy A. Petti, Linda L. Sanders, Sharon L. Trivette, Jane Briggs, and Daniel J. Sexton
- 309 **Effect of Antivirals on Human Herpesvirus 6 Replication in Hematopoietic Stem Cell Transplant Recipients**  
Danielle M. Zerr, Deepti Gupta, Meei-Li Huang, Rachel Carter, and Lawrence Corey
- 318 **Use of Indicators to Evaluate the Quality of Community-Acquired Pneumonia Management**  
Dilip Nathwani, Fiona Williams, John Winter, Janet Winter, Simon Ogston, and Peter Davey
- 324 **Trends in Multidrug-Resistant *Mycobacterium tuberculosis* in Relation to Sputum Smear Positivity in Hong Kong, 1989-1999**  
Kai Man Kam, Chi Wai Yip, Lai Wa Tse, Oi Chi Leung, Lai Ping Sin, Mei Yuk Chan, and Wai Sum Wong
- 330 **The Molecular Epidemiology of Penicillin-Resistant *Streptococcus pneumoniae* in the United States, 1994-2000**  
S. S. Richter, K. P. Heilmann, S. L. Coffman, H. K. Huynh, A. B. Brueggemann, M. A. Pfaller, and G. V. Doern
- 340 **Risk Factors for Imipenem-Resistant *Pseudomonas aeruginosa* among Hospitalized Patients**  
Anthony D. Harris, David Smith, Judith A. Johnson, Douglas D. Bradham, and Mary-Claire Roghmann
- 346 **Health Care Costs and Mortality Associated with Nosocomial Diarrhea Due to *Clostridium difficile***  
Lorraine Kyne, Mary Beth Hamel, Rajashekhar Polavaram, and Ciarán P. Kelly

**PHOTO QUIZ**

- 354 **A 40-Year-Old Man with Chronic Elbow Swelling after Minor Trauma**

**TRAVEL MEDICINE**

- 355 **Water Disinfection for International and Wilderness Travelers**  
Howard Backer

**CLINICAL PRACTICE**

- 365 **Evolution and Current Use of the Tuberculin Test**  
Elsie Lee and Robert S. Holzman

**HIV/AIDS**

- 371 **Azithromycin Prophylaxis for *Mycobacterium avium* Complex during the Era of Highly Active Antiretroviral Therapy: Evaluation of a Provincial Program**  
Peter Phillips, Keith Chan, Robert Hogg, Elaine Bessuille, William Black, James Talbot, Michael O'Shaughnessy, and Julio Montaner
- 379 **Influence of Human Immunodeficiency Virus Type 1 Infection on Acute Hepatitis A Virus Infection**  
Setsuko Ida, Natsuo Tachikawa, Aya Nakajima, Manabu Daikoku, Michitami Yano, Yoshimi Kikuchi, Akira Yasuoka, Satoshi Kimura, and Shinichi Oka
- 386 **Risk Factors for Development of Tuberculosis after Isoniazid Chemoprophylaxis in Human Immunodeficiency Virus-Infected Patients**  
José L. Casado, Santiago Moreno, Jesús Fortún, Antonio Antela, Carmen Quereda, Enrique Navas, Ana Moreno, and Fernando Dronda
- 390 **Reduction of Abdominal Obesity in Lipodystrophy Associated with Human Immunodeficiency Virus Infection by Means of Diet and Exercise: Case Report and Proof of Principle**  
Ronenn Roubenoff, Heather Schmitz, Lynn Bairos, Jennifer Layne, Emily Potts, Gregory J. Cloutier, and Fabien Denry

- 394 **Discontinuation of Secondary Prophylaxis in Patients with Cytomegalovirus Retinitis Who Have Responded to Highly Active Antiretroviral Therapy**

Juan Berenguer, Juan González, Federico Pulido, Belén Padilla, José Luis Casado, Rafael Rubio, and José Ramón Arribas, for the Madrid Group for the Study of Discontinuation of Secondary Prophylaxis in Patients with CMV Retinitis

## ANSWER TO PHOTO QUIZ

- 398 **A 40-Year-Old Man with Chronic Elbow Swelling after Minor Trauma**

## BRIEF REPORTS

- 400 **Pulmonary Candidiasis in Patients with Cancer: An Autopsy Study**

D. P. Kontoyiannis, B. T. Reddy, H. A. Torres, M. Luna, R. E. Lewis, J. Tarrand, G. P. Bodey, and I. I. Raad

- 404 **Use of Rabies Vaccines after Reconstitution and Storage**

Pakamat Khawplod, Tanpetch Tantawichien, Henry Wilde, Sukunya Limusanno, Terapong Tantawichien, Apinya Saikasem, and Somsri Raksakate

- 407 **Diagnostic Significance of Blood Eosinophilia in Returning Travelers**

C. Schulte, B. Krebs, T. Jelinek, H. D. Nothdurft, F. von Sonnenburg, and T. Löscher

- 412 **Cluster of Cases of Invasive Aspergillosis in a Transplant Intensive Care Unit: Evidence of Person-to-Person Airborne Transmission**

David A. Pegues, Brent A. Lasker, Michael M. McNeil, Patricia M. Hamm, Judy L. Lundal, and Bernard M. Kubak

## CORRESPONDENCE

- 417 **Infection with Non-B Subtype HIV Type 1 Complicates Management of Established Infection in Adult Patients and Diagnosis of Infection in Newborn Infants**

Muhammad M. Zaman, Rose A. Recco, and Robin Haag

- 418 **Severe Ototoxicity in a Health Care Worker Who Received Postexposure Prophylaxis with Stavudine, Lamivudine, and Nevirapine after Occupational Exposure to HIV**

D. Rey, A. L'Héritier, and J. M. Lang

- 419 **Safety of Outpatient Parenteral Antimicrobial Therapy for Endocarditis**

Alan D. Tice

- 420 **Business Aspects of Infectious Diseases**

Marvin J. Tenenbaum and Russell Petrak

- 420 **The United States Food and Drug Administration and the End of Antibiotics**

David M. Shlaes and Robert C. Moellering Jr.

## BOOK REVIEW

- 423 **Tropical Infectious Diseases: Epidemiology, Investigation, Diagnosis and Management**

Written by Ranjan L. Fernando, Sujatha S. E. Fernando, and Anthony S.-Y. Leong

Reviewed by Louis M. Weiss

- 423 **New Books Received**

Volume 34 • Number 4

15 February 2002

## i 15 February News

## MAJOR ARTICLES

- 425 **Population-Based Community Prevalence of Methicillin-Resistant *Staphylococcus aureus* in the Urban Poor of San Francisco**

Edwin D. Charlebois, David R. Bangsberg, Nicholas J. Moss, Matthew R. Moore, Andrew R. Moss, Henry F. Chambers, and Françoise Perdreau-Remington

- 434 **An Epidemiological Investigation of a Sustained High Rate of Pediatric Parapneumonic Empyema: Risk Factors and Microbiological Associations**

Carrie L. Byington, LaShonda Y. Spencer, Timothy A. Johnson, Andrew T. Pavia, Daniel Allen, Edward O. Mason, Sheldon Kaplan, Karen C. Carroll, Judy A. Daly, John C. Christenson, and Matthew H. Samore

- 441 **Patients in Long-Term Care Facilities: A Reservoir for Vancomycin-Resistant Enterococci**

Marnie L. Elizaga, Robert A. Weinstein, and Mary K. Hayden

- 447 **National Study of Adverse Reactions after Vaccination with Bacille Calmette-Guérin**

F. M. Turnbull, P. B. McIntyre, H. M. Achat, H. Wang, R. Stapledon, M. Gold, and M. A. Burgess

- 454 **Severe Group A Streptococcal Soft-Tissue Infections in Ontario: 1992-1996**

Abdu Sharkawy, Donald E. Low, Raphael Saginur, Daniel Gregson, Benjamin Schwartz, Peter Jessamine, Karen Green, Allison McGeer, and the Ontario Group A Streptococcal Study Group

- 461 **Influenza Encephalopathy Associated with Infection with Human Herpesvirus 6 and/or Human Herpesvirus 7**

Norio Sugaya, Tetsushi Yoshikawa, Masaru Miura, Takehiro Ishizuka, Chiharu Kawakami, and Yoshizo Asano



## REVIEW ARTICLE

- 467 **Disseminated Phaeohyphomycosis: Review of an Emerging Mycosis**

Sanjay G. Revankar, Jan E. Patterson, Deanna A. Sutton, Renee Pullen, and Michael G. Rinaldi

## VIEWPOINTS

- 477 **Postexposure Treatment of Rabies Infection: Can It Be Done without Immunoglobulin?**

Henry Wilde, Pakamat Khawplod, Thiravat Hemachudha, and Visith Sitpraja

## PHOTO QUIZ

- 481 **Birefringent Crystals in a Pulmonary Specimen**

## ANTIMICROBIAL RESISTANCE

- 482 **Mechanisms of Resistance to Macrolides and Lincosamides: Nature of the Resistance Elements and Their Clinical Implications**

Roland Leclercq

## TRAVEL MEDICINE

- 493 **Prevention of Malaria in Children**

Philip R. Fischer and Ralf Bialek

## HEALTHCARE EPIDEMIOLOGY

- 499 **Nosocomial Antibiotic Resistance in Multiple Gram-Negative Species: Experience at One Hospital with Squeezing the Resistance Balloon at Multiple Sites**

James J. Rahal, Carl Urban, and Sorana Segal-Maurer

## HIV/AIDS

- 504 **Virological, Immunological, and Clinical Impact of Switching from Protease Inhibitors to Nevirapine or to Efavirenz in Patients with Human Immunodeficiency Virus Infection and Long-Lasting Viral Suppression**

Eugenia Negrodo, Luis Cruz, Roger Paredes, Lidia Ruiz, Carmina R. Fumaz, Anna Bonjoch, Silvia Gel, Albert Tuldrà, Montserrat Balagué, Susan Johnston, Albert Arnó, Antoni Jou, Cristina Tural, Guillem Sirera, Joan Romeu, and Bonaventura Clotet

- 511 **Response to Lamivudine-Zidovudine plus Abacavir Twice Daily in Antiretroviral-Naive, Incarcerated Patients with HIV Infection Taking Directly Observed Treatment**

Larry R. Kirkland, Margaret A. Fischl, Karen T. Tashima, David Paar, Thomas Gensler, Neil M. Graham, Haitao Gao, Jacqueline R. Carranza Rosenzweig, Daniel R. McCleron, Ginger Pittman, Siegrid M. Hensenthaler, and Jaime E. Hernandez, for the NZTA4007 Study Team

- 519 ***Trichomonas vaginalis* Is Associated with Pelvic Inflammatory Disease in Women Infected with Human Immunodeficiency Virus**

Prashini Moodley, David Wilkinson, Cathy Connolly, Jack Moodley, and A. Willem Sturm

- 523 **Exercise Stress Testing for Detection of Silent Myocardial Ischemia in Human Immunodeficiency Virus-Infected Patients Receiving Antiretroviral Therapy**

M. Duong, Y. Cottin, L. Piroth, A. Fargeot, I. Lhuillier, M. Bobillier, M. Grappin, M. Buisson, M. Zeller, P. Chavanet, J. E. Wolf, and H. Portier

- 529 **Adherence to Antiretroviral Therapy and Its Association with Sexual Behavior in a National Sample of Women with Human Immunodeficiency Virus**

Tracey E. Wilson, Yolanda Barrón, Mardge Cohen, Jean Richardson, Ruth Greenblatt, Henry S. Sacks, and Mary Young, for the Women's Interagency HIV Study

- 535 **Abacavir Expanded Access Program for Adult Patients Infected with Human Immunodeficiency Virus Type 1**

Harold A. Kessler, Judy Johnson, Stephen Follansbee, Michael G. Sension, Donna Mildvan, Gladys E. Sepulveda, Nicholas C. Bellos, and Seth V. Hetherington

- 543 **Reduced Risk of Tuberculosis among Brazilian Patients with Advanced Human Immunodeficiency Virus Infection Treated with Highly Active Antiretroviral Therapy**

Guilherme Santoro-Lopes, Ana Maria Felix de Pinho, Lee H. Harrison, and Mauro Schachter

- 547 **Resuppression of Virus Load after Interruption in Treatment with Nevirapine and 2 Nucleoside Reverse-Transcriptase Inhibitors**

J. L. Yozviak, R. E. Doerfler, and W. C. Woodward

## ANSWER TO PHOTO QUIZ

- 551 **Birefringent Crystals in a Pulmonary Specimen**

## CORRESPONDENCE

- 553 **Continue Antiretroviral Therapy during Virologic Failure?**

Davey Smith and Joseph Wong

- 553 **Reply**

Andrew D. Badley, Nanci Hawley-Foss, Georgina Mbisa, Julian J. Lum, Andre A. Pilon, Jonathan B. Angel, and Gary Garber

- 556 **Distinguishing between Chemical and Bacterial Meningitis in Patients Who Have Undergone Neurosurgery**

E. M. Brown, J. de Louvois, R. Bayston, P. D. Lees, and I. K. Pople, for the British Society for Antimicrobial Chemotherapy Working Party on Neurosurgical Infections

- 557 **Reply**

Pierre Forgacs, Stephen R. Freiberg, and Carl A. Geyer

- 558 **Lactacidemia in Asymptomatic HIV-Infected Subjects Receiving Nucleoside Reverse-Transcriptase Inhibitors**

Marta Boffito, Giorgio Marietti, Sabrina Audagnotto, Riccardo Raiter, and Giovanni Di Perri

- 559 **Human Herpesvirus 8 and Sarcoidosis**  
David N. Fredricks, Tammy M. Martin, Albert O. Edwards,  
James T. Rosenbaum, and David A. Relman

- 560 **Clarithromycin for the Treatment  
of Mediterranean Spotted Fever**  
F. Segura and E. Antón

- 561 **Erratum**

Volume 34 • Number 5

1 March 2002

i 1 March News

MAJOR ARTICLES

- 563 **Efficacy and Safety of Voriconazole  
in the Treatment of Acute Invasive Aspergillosis**  
David W. Denning, Patricia Ribaud, Noel Milpied, Denis Caillot,  
Raoul Herbrecht, Eckhard Thiel, Andrea Haas, Markus Ruhnke,  
and Hartmut Lode
- 572 **Imported Falciparum Malaria in Europe: Sentinel  
Surveillance Data from the European Network  
on Surveillance of Imported Infectious Diseases**  
T. Jelinek, C. Schulte, R. Behrens, M. P. Grobusch, J. P. Coulaud,  
Z. Bisoffi, A. Matteelli, J. Clerinx, M. Corachán, S. Puente, I. Gjørup,  
G. Harms, H. Kollaritsch, A. Kotłowski, A. Björkman, J. P. Delmont,  
J. Knobloch, L. N. Nielsen, J. Cuadros, C. Hatz, J. Beran,  
M. L. Schmid, M. Schulze, R. Lopez-Velez, K. Fleischer, A. Kapaun,  
P. McWhinney, P. Kern, J. Atougia, G. Fry, S. da Cunha,  
and G. Boecken, for the European Network on Surveillance  
of Imported Infectious Diseases (TropNetEurop)
- 577 **Large Epidemic of Respiratory Illness Due  
to Adenovirus Types 7 and 3 in Healthy  
Young Adults**  
Margaret A. K. Ryan, Gregory C. Gray, Besa Smith,  
Jamie A. McKeenan, Anthony W. Hawksworth,  
and Marietta D. Malasig
- 583 **Etiological Diagnosis of Childhood Pneumonia  
by Use of Transthoracic Needle Aspiration  
and Modern Microbiological Methods**  
Elina Vuori-Holopainen, Eeva Salo, Harri Saxén, Klaus Hedman,  
Timo Hyytiä, Raija Lahdenperä, Maija Leinonen, Eveliina Tarkka,  
Martti Vaara, and Heikki Peltola
- 591 **Should Vascular Catheters Be Removed  
from All Patients with Candidemia? An  
Evidence-Based Review**  
Marcio Nucci and Elias Anaissie
- 600 **Editorial Commentary. All Catheter-Related  
Candidemia Is Not the Same: Assessment  
of the Balance between the Risks and Benefits  
of Removal of Vascular Catheters**  
Thomas J. Walsh and John H. Rex

- 603 **Nosocomial Spread of the Integron-Located  
vex-1-Like Cassette Encoding an Extended-  
Spectrum  $\beta$ -Lactamase in *Pseudomonas  
aeruginosa* in Thailand**  
Delphine Girlich, Thierry Naas, Amornrut Leelaporn, Laurent Poirer,  
Michael Fennewald, and Patrice Nordmann
- 612 **Prospective Use of Molecular Typing  
of *Mycobacterium tuberculosis* by Use  
of Restriction Fragment–Length Polymorphism  
in a Public Tuberculosis–Control Program**  
Samuel J. McConkey, Michael Williams, Don Weiss, Hilda Adams,  
M. Donald Cave, Zhenhua Yang, Tom Lindner, and Thomas C. Bailey
- 620 **Common Respiratory Infections Early in Life  
May Reduce the Risk of Atopic Dermatitis**  
Terhi Kilpi, Jukka Kero, Jukka Jokinen, Ritva Syrjänen, Aino K. Takala,  
Tapani Hovi, and Erika Isolauri

PHOTO QUIZ

- 627 **New Onset of Seizures in a Patient  
with a Large Cyst in the Brain**

TRAVEL MEDICINE

- 628 **Drug Prophylaxis for Travelers' Diarrhea**  
Pamela Rendi-Wagner and Herwig Kollaritsch

ANTIMICROBIAL RESISTANCE

- 634 **Multiple Mechanisms of Antimicrobial  
Resistance in *Pseudomonas aeruginosa*:  
Our Worst Nightmare?**  
David M. Livermore

HIV/AIDS

- 641 **Human Papillomavirus–Associated Oral  
Warts among Human Immunodeficiency  
Virus–Seropositive Patients in the Era  
of Highly Active Antiretroviral Therapy:  
An Emerging Infection**  
Mark D. King, David A. Reznik, Christine M. O'Daniels,  
Nina M. Larsen, Dawn Osterholt, and Henry M. Blumberg

**649 Role of Long-Term Nucleoside-Analogue Therapy in Lipodystrophy and Metabolic Disorders in Human Immunodeficiency Virus-Infected Patients**

Geneviève Chêne, Emmanuelle Angelini, Laurent Cotte, Jean-Marie Lang, Philippe Morlat, Corinne Rancinan, Thierry May, Valérie Journot, François Raffi, Bernard Jarrousse, Michèle Grappin, Gérard Lepeu, Jean-Michel Molina, and the Alternance de Bithérapies-Agences Nationales de Recherche sur le SIDA, Essai 070 (ALBI-ANRS 70) Study Group

**658 Field Evaluation of the Merlin Immediate HIV-1 and -2 Test for Point-of-Care Detection of Human Immunodeficiency Virus Antibodies**

Stephen D. Shafran, Brian Conway, Errol Prasad, Jane Greer, Jean Vincelette, C. Edward Ellis, David A. Haase, Sharon L. Walmsley, Richard G. Lalonde, D. William Cameron, and the Canadian POC Test Study Group

**662 Discontinuation of Secondary Prophylaxis against Disseminated *Mycobacterium avium* Complex Infection and Toxoplasmic Encephalitis**

Valérie Zeller, Chantal Truffot, Rachid Agher, Philippe Bossi, Roland Tubiana, Eric Caumes, Marc Jouan, François Bricaire, and Christine Katlama

**668 Tuberculosis Outbreak in a Housing Unit for Human Immunodeficiency Virus-Infected Patients in a Correctional Facility: Transmission Risk Factors and Effective Outbreak Control**

Janet C. Mohle-Boetani, Vanessa Miguelino, Daniel H. Dewsnup, Edward Desmond, Evalyn Horowitz, Stephen H. Waterman, and Joseph Bick

**677 Nosocomial Bloodstream Infections among Human Immunodeficiency Virus-Infected Patients: Incidence and Risk Factors**

Nicola Petrosillo, Pierluigi Viale, Emanuele Nicastrì, Claudio Arici, Enrico Bombana, Alberto Casella, Francesco Cristini, Michele De Gennaro, Ferdinando Dodi, Andrea Gabbuti, Gianni Gattuso, Laura Irato, Paolo Maggi, Federico Pallavicini, Angelo Pan, Mario Pantaleoni, and Giuseppe Ippolito, for Gruppo HIV e Infezioni Ospedaliere

**686 Daily Dosing of Highly Active Antiretroviral Therapy**

Keith A. Rosenbach, Robert Allison, and Jeffrey P. Nadler

**ANSWER TO PHOTO QUIZ**

**693 New Onset of Seizures in a Patient with a Large Cyst in the Brain**

**BRIEF REPORTS**

**695 Thrombocytopenia Associated with Linezolid Therapy**

Kinan Attassi, Ellie Hershberger, Rabiul Alam, and Marcus J. Zervos

**699 Pediatric Acute Hemorrhagic Leukoencephalitis: Report of a Surviving Patient and Review**

John A. D. Leake, Glenn F. Billman, Mark P. Nespeca, Susan E. Duthie, Christopher E. Dory, Hal S. Meltzer, and John S. Bradley

**704 Distribution of Penicillin-Nonsusceptible Pneumococcal Clones in the Baltimore Metropolitan Area and Variables Associated with Drug Resistance**

M. Catherine McEllistrem, Aaron B. Mendelsohn, Margaret Pass, John A. Elliott, Cynthia G. Whitney, Bernadette A. Albanese, and Lee H. Harrison

**708 Cross-Linked Fibrin in the Nasal Fluid of Patients with the Common Cold**

Birgit Winther, Jack M. Gwaltney, Jr., John E. Humphries, and J. Owen Hendley

**711 Infections Requiring Hospitalization of Injection Drug Users Who Participated in an Injection Opiate Maintenance Program**

Stefano Bassetti, Matthias Hoffmann, Heiner C. Bucher, Ursula Fluckiger, and Manuel Battegay

**714 Unusual Portal of Entry of *Vibrio vulnificus*: Evidence of Its Prolonged Survival on the Skin**

R. Colodner, B. Chazan, J. Kopelowitz, Y. Keness, and R. Raz

**CORRESPONDENCE**

**716 Acanthosis Nigricans: A New Manifestation of Insulin Resistance in Patients Receiving Treatment with Protease Inhibitors**

Susana Mellor-Pita, Miguel Yebra-Bango, Joaquín Alfaro-Martínez, and Emilio Suárez

**717 Seroreversion from Hepatitis C after Needlestick Injury**

Sophie Alain, Véronique Loustaud-Ratti, Frédéric Dubois, Marie-Dominique Bret, Sylvie Rogez, Elizabeth Vidal, and François Denis

**719 *Campylobacter* Species: Don't Put All Your Eggs in One Chicken**

Clarence C. Tam, Sarah J. O'Brien, Goutam K. Adak, and Iain A. Gillespie

**720 Reply**

Ban Mishu Allos

**721 The Role of Cefoperazone-Sulbactam for Treatment of Severe Melioidosis**

Anucha Apisarnthanarak and J. Russell Little

**722 Reply**

Ploench Chetchotisakd, Sriurai Porramatikul, Piroon Mootsikapun, Siriluck Anunnatsiri, and Bandit Thinkhamrop

**723 *Clostridium difficile* Infection in Patients with Neutropenia**

J. Altclas, A. Requejo, G. Jaimovich, V. Milovic, and L. Feldman

**724 ELECTRONIC ARTICLES**

**Prolonged Excretion of Amantadine-Resistant Influenza A Virus Quasi Species after Cessation of Antiviral Therapy in an Immunocompromised Patient**

Guy Boivin, Nathalie Goyette, and Harold Bernatchez



***Mycobacterium simiae* Infection  
in an Immunocompromised Patient  
without Acquired Immunodeficiency Syndrome**  
Beatriz Braun-Saro, Jaime Esteban, Soledad Jiménez,  
Jose M. Castrillo, and Manuel L. Fernández-Guerrero

**Changing Clinical Presentation of Q Fever  
Endocarditis**  
Pierre Houplikian, Gilbert Habib, Thierry Mesana, and Didier Raoult

Volume 34 • Supplement 1

1 March 2002

# THE CLINICAL SIGNIFICANCE OF DRUG-RESISTANT *STREPTOCOCCUS PNEUMONIAE* FOR THE TREATMENT OF COMMUNITY-ACQUIRED PNEUMONIA

- S1 Introduction: The Continuing Challenge  
of Lower Respiratory Tract Infections**  
Robert C. Moellering Jr.
- S4 Regional Trends in Antimicrobial Resistance  
among Clinical Isolates of *Streptococcus  
pneumoniae*, *Haemophilus influenzae*,  
and *Moraxella catarrhalis* in the United States:  
Results from the TRUST Surveillance  
Program, 1999–2000**  
Clyde Thornsberry, Daniel F. Sahm, Laurie J. Kelly, Ian A. Critchley,  
Mark E. Jones, Alan T. Evangelista, and James A. Karlowsky

- S17 Appropriate Use of Antimicrobials for Drug-  
Resistant Pneumonia: Focus on the Significance  
of  $\beta$ -Lactam-Resistant *Streptococcus pneumoniae***  
Thomas M. File Jr.
- S27 Clinical Relevance of Macrolide-Resistant  
*Streptococcus pneumoniae* for  
Community-Acquired Pneumonia**  
Joseph P. Lynch III and Fernando J. Martinez

Volume 34 • Number 6

15 March 2002

## i 15 March News

## MEMORIAL TRIBUTE

- 725 Maxwell Finland: A Remembrance**  
Jerome O. Klein

## IDSA GUIDELINES

- 730 2002 Guidelines for the Use of Antimicrobial  
Agents in Neutropenic Patients with Cancer**  
Walter T. Hughes, Donald Armstrong, Gerald P. Bodey, Eric J. Bow,  
Arthur E. Brown, Thierry Calandra, Ronald Feld, Philip A. Pizzo,  
Kenneth V. I. Rolston, Jerry L. Shenep, and Lowell S. Young

## MAJOR ARTICLES

- 752 Survival of Patients with Pulmonary  
Tuberculosis: Clinical and Molecular  
Epidemiologic Factors**  
Kris K. Oursler, Richard D. Moore, William R. Bishai,  
Susan M. Harrington, Diana S. Pope, and Richard E. Chaisson
- 760 Antibiotic-Resistant Gram-Negative Organisms  
in Pediatric Chronic-Care Facilities**  
Karen Lidsky, Claudia Hoyen, Ann Salvator, Louis B. Rice,  
and Philip Toltzis

- 767 Three Consecutive Outbreaks of *Serratia  
marcescens* in a Neonatal Intensive Care Unit**  
Felix Fleisch, Urs Zimmermann-Baer, Reinhard Zbinden, Gian Bischoff,  
Romaine Arlettaz, Katharina Waldvogel, David Nadal,  
and Christian Ruef
- 774 Persistence of Immunity to Live Attenuated  
Varicella Vaccine in Healthy Adults**  
Krow Ampofo, Lisa Saiman, Philip LaRussa, Sharon Steinberg,  
Paula Annunziato, and Anne Gershon
- 780 Pathogenic *Aspergillus* Species Recovered  
from a Hospital Water System: A 3-Year  
Prospective Study**  
Elias J. Anaissie, Shawna L. Stratton, M. Cecilia Dignani,  
Richard C. Summerbell, John H. Rex, Thomas P. Monson,  
Trey Spencer, Miki Kasai, Andrea Francesconi, and Thomas J. Walsh
- 790 Clinical and Economic Evaluation of Rapid  
Influenza A Virus Testing in Nursing Homes  
in Calgary, Canada**  
Deirdre L. Church, H. Dele Davies, Craig Mitton, Heather Semeniuk,  
Melissa Logue, Colleen Maxwell, and Cam Donaldson

## PHOTO QUIZ

- 796 The Eyes Have It**

## HEALTHCARE EPIDEMIOLOGY

- 797 **Emerging Infectious Agents: Do They Pose a Risk to the Safety of Transfused Blood and Blood Products?**  
Mary E. Chamberland

## AGING AND INFECTIOUS DISEASES

- 806 **Infective Endocarditis in Elderly Patients**  
Vinod K. Dhawan

## HIV/AIDS

- 813 **Reimmunization with 23-Valent Pneumococcal Vaccine for Patients Infected with Human Immunodeficiency Virus Type 1: Clinical, Immunologic, and Virologic Responses**  
Sybil A. Tasker, Mark R. Wallace, Jeffrey B. Rubins, William B. Paxton, James O'Brien, and Edward N. Janoff
- 822 **Rates of Postoperative Complications among Human Immunodeficiency Virus-Infected Women Who Have Undergone Obstetric and Gynecologic Surgical Procedures**  
Thomas A. Grubert, Daniela Reindell, Ralph Kästner, Bernd H. Belohradsky, Lutz Gürtler, Manfred Stauber, and Olaf Dathe
- 831 **Hepatitis C Virus Prevalence among Patients Infected with Human Immunodeficiency Virus: A Cross-Sectional Analysis of the US Adult AIDS Clinical Trials Group**  
Kenneth E. Sherman, Susan D. Rouster, Raymond T. Chung, and Natasa Rajicic
- 838 **Severe Nucleoside-Associated Lactic Acidosis in Human Immunodeficiency Virus-Infected Patients: Report of 12 Cases and Review of the Literature**  
Vicente Falcó, Dolores Rodríguez, Esteban Ribera, Esteban Martínez, José María Miró, Pere Domingo, Ruth Diazaraque, José R. Arribas, Juan J. González-García, Francesc Montero, Lluís Sánchez, and Albert Pahissa

## ANSWER TO PHOTO QUIZ

- 847 **The Eyes Have It**

## BRIEF REPORTS

- 849 **Cerebral Nocardiosis Characterized by Magnetic Resonance Spectroscopy In Vivo**  
Ronan J. Murray, Uwe Himmelreich, Lavier Gomes, Nicholas J. Ingham, and Tania C. Sorrell
- 853 ***Propionibacterium acnes* Chest Infections in Patients with Chronic Granulomatous Disease: Case Reports**  
Franck Bourdeaut, Pierre Quartier, Groob Alkaer, Alain Fischer, Jean-Laurent Casanova, and Stéphane Blanche

- 855 **Severe Demyelinating Myelopathy with Low Human T Cell Lymphotropic Virus Type 1 Expression after Transfusion in an Immunosuppressed Patient**  
Simona Ozden, Danielle Seilhean, Antoine Gessain, Jean-Jacques Hauw, and Olivier Gout

- 861 **Gatifloxacin-Associated Corrected QT Interval Prolongation, Torsades de Pointes, and Ventricular Fibrillation in Patients with Known Risk Factors**  
Joseph S. Bertino, Jr., Robert C. Owens, Jr., Timothy D. Carnes, and Paul B. Iannini

- 864 **Quantification of Adenovirus DNA in Plasma for Management of Infection in Stem Cell Graft Recipients**  
A. C. Lankester, M. J. D. van Tol, E. C. J. Claas, J. M. Vossen, and A. C. M. Kroes

## CORRESPONDENCE

- 868 **Septic Joint Replacement: An Orthopedic Perspective**  
K. Saleh, J. Callaghan, T. Gioe, A. Gross, J. Holtzman, K. Krackow, J. Rand, E. Salvati, Andrew Schmidt, and Dean Tsukayama
- 870 **Criteria for Treatment of Prosthetic Joint Infection**  
A. Hanssen, D. Lewallen, and D. Osmon
- 871 **Reply**  
David N. Fisman, Donald T. Reilly, A. W. Karchmer, and Sue J. Goldie
- 874 **Urine Samples for Rabies RNA Detection in the Diagnosis of Rabies in Humans**  
Supaporn Wacharapluesadee and Thiravat Hemachudha
- 875 **Kawasaki-like Illness in Human Immunodeficiency Virus-Infected Patients: Is the Etiologic Agent the Same as in Pediatric Kawasaki Disease?**  
Marsha S. Anderson
- 876 **Reply**  
Raymond M. Johnson
- 878 **Cause and Timing of Death Following Meningitis in Adults**  
S. J. Vandecasteele, J. Verhaegen, and W. E. Peetermans
- 879 **Reply**  
Donna A. McMillan, Carol Y. Lin, Steven I. Aronin, and Vincent J. Quagliarello
- 879 **The United States Food and Drug Administration and Noninferiority Margins in Clinical Trials of Antimicrobial Agents**  
John H. Powers, David B. Ross, Erica Brittain, Renata Albrecht, and Mark J. Goldberger

## BOOK REVIEWS

- 882 **Infectious Diseases in Women**  
 Edited by Sebastian Faro and David E. Soper  
 Reviewed by Larry I. Lutwick

- 882 **The 5-Minute Infectious Diseases Consult**  
 Edited by Sherwood L. Gorbach and Matthew Falagas  
 Reviewed by Natalie C. Klein
- 883 **New Books Received**

Volume 34 • Number 7

1 April 2002

## i 1 April News

### MAJOR ARTICLES

- 885 **Do the Benefits of Varicella Vaccination Outweigh the Long-Term Risks? A Decision-Analytic Model for Policymakers and Pediatricians**  
 Michael Rothberg, Michael L. Bennish, Jack S. Kao, and John B. Wong
- 895 **Usefulness of Procalcitonin as a Marker of Systemic Infection in Emergency Department Patients: A Prospective Study**  
 P. Hausfater, S. Garric, S. Ben Ayed, M. Rosenheim, M. Bernard, and B. Riou
- 902 **Clinical Determinants for the Recovery of Fungal and Mezlocillin-Resistant Pathogens from Bile Specimens**  
 Boris P. Ehrenstein, Lea Salamon, Hans-Jörg Linde, Helmut Messmann, Jürgen Schölmerich, and Thomas Glück
- 909 **Epidemiology and Outcome of Mould Infections in Hematopoietic Stem Cell Transplant Recipients**  
 Kieren A. Marr, Rachel A. Carter, Fulvio Crippa, Anna Wald, and Lawrence Corey
- 918 **Intestinal Microsporidiosis Due to *Enterocytozoon bieneusi* in Elderly Human Immunodeficiency Virus-Negative Patients from Vigo, Spain**  
 Beatriz Lores, Isabel López-Miragaya, Cristina Arias, Soledad Fenoy, Julio Torres, and Carmen del Aguila
- 922 **Clinical Outcomes for Patients with Bacteremia Caused by Vancomycin-Resistant *Enterococcus* in a Level 1 Trauma Center**  
 Thomas P. Lodise, Peggy S. McKinnon, Vincent H. Tam, and Michael J. Rybak
- 930 **Delayed Reimplantation Arthroplasty for Candidal Prosthetic Joint Infection: A Report of 4 Cases and Review of the Literature**  
 David M. Phelan, Douglas R. Osmon, Michael R. Keating, and Arlen D. Hanssen
- 939 **Invasive Aspergillosis in Allogeneic Stem Cell Transplant Recipients: Increasing Antigenemia Is Associated with Progressive Disease**  
 François Boutboul, Corinne Alberti, Thierry Leblanc, Annie Sulahian, Eliane Gluckman, Francis Derouin, and Patricia Ribaud

- 944 **Two-Day Regimen of Acyclovir for Treatment of Recurrent Genital Herpes Simplex Virus Type 2 Infection**  
 Anna Wald, David Carrell, Michael Remington, Elizabeth Kexel, Judy Zeh, and Lawrence Corey
- 949 **Are *Haemophilus influenzae* Infections a Significant Problem in India? A Prospective Study and Review**  
 Invasive Bacterial Infections Surveillance (IBIS) Group of the International Clinical Epidemiology Network
- 958 **Valacyclovir for Episodic Treatment of Genital Herpes: A Shorter 3-Day Treatment Course Compared with 5-Day Treatment**  
 Peter A. Leone, Sylvie Trottier, and J. Mitchell Miller

### REVIEW ARTICLE

- 963 **Infectious Disease Experimentation Involving Human Volunteers**  
 Julie Rothstein Rosenbaum and Kent A. Sepkowitz

### CONFRONTING BIOLOGICAL WEAPONS

- 972 **Shining Light on "Dark Winter"**  
 Tara O'Toole, Michael Mair, and Thomas V. Inglesby

### HIV/AIDS

- 984 **Directly Observed Therapy for the Treatment of People with Human Immunodeficiency Virus Infection: A Work in Progress**  
 Jennifer Adelson Mitty, Valerie E. Stone, Michael Sands, Grace Macalino, and Timothy Flanigan
- 991 **Nucleoside-Analogue Reverse-Transcriptase Inhibitors Plus Nevirapine, Nelfinavir, or Ritonavir for Pretreated Children Infected with Human Immunodeficiency Virus Type 1**  
 Paul Krogstad, Sophia Lee, George Johnson, Kenneth Stanley, James McNamara, John Moye, J. Brooks Jackson, Rosaura Aguayo, Arny Dieudonne, Margaret Khoury, Hermann Mendez, Sharon Nachman, Andrew Wiznia, and the Pediatric AIDS Clinical Trials Group 377 Study Team
- 1002 **Increased Survival of Persons with Tuberculosis and Human Immunodeficiency Virus Infection, 1991-2000**  
 Michael K. Leonard, Nina Larsen, Henning Drechsler, Henry Blumberg, Jeffrey L. Lennox, Martha Arrellano, Jennifer Filip, and C. Robert Horsburgh, Jr.

- 1008 Results of 2 Years of Treatment with Protease-Inhibitor-Containing Antiretroviral Therapy in Dutch Children Infected with Human Immunodeficiency Virus Type 1**  
Annemarie M. C. van Rossum, Sibyl P. M. Geelen, Nico G. Hartwig, Tom F. W. Wolfs, Corry M. R. Weemaes, Henriëtte J. Scherpier, Ellen G. van Lochem, Wim C. J. Hop, Martin Schutten, Albert D. M. E. Osterhaus, David M. Burger, and Ronald de Groot, for the Dutch Study Group for Children with HIV-1 Infections
- 1017 Remission of Cutaneous *Mycobacterium haemophilum* Infection as a Result of Antiretroviral Therapy in a Human Immunodeficiency Virus-Infected Patient**  
V. Paech, T. Lorenzen, A. von Krosigk, A. von Stemm, W. M. Meigel, A. Stoehr, S. Rüscher-Gerdes, E. Richter, and A. Plettenberg

# BRIEF REPORTS

- 1020 Left Ventricular Dysfunction in Children with Fulminant Enterovirus 71 Infection: An Evaluation of the Clinical Course**  
Fang-Liang Huang, Sheng-Ling Jan, Po-Yen Chen, Ching-Shiang Chi, Teh-Ming Wang, Yun-Ching Fu, Chi-Ren Tsai, and Yan Chang

- 1025 Assessment of the Binax NOW *Streptococcus pneumoniae* Urinary Antigen Test in Children with Nasopharyngeal Pneumococcal Carriage**  
Davidson H. Hamer, Josefina Egas, Bertha Estrella, William B. MacLeod, Jeffrey K. Griffiths, and Fernando Sempértegui

# BOOK REVIEWS

- 1029 Fundamental Virology, 4th Edition; and Fields Virology, 4th Edition, Volumes I and II**  
Written by David M. Knipe, Peter M. Howley, Diane E. Griffin, Robert A. Lamb, Malcolm A. Martin, Bernard Roizman, and Stephen E. Straus  
Reviewed by Donald H. Rubin
- 1030 Community-Acquired Pneumonia**  
Edited by Thomas J. Marrie  
Reviewed by Mark E. Rupp
- 1031 Bacterial Meningitis**  
Written by Allan R. Tunkel  
Reviewed by Rodrigo Hasbun
- 1031 New Books Received**
- 1032 Erratum**

Volume 34 • Number 8

15 April 2002

# i 15 April News

# MAJOR ARTICLES

- 1033 Evidence for Probable Sexual Transmission of the Hepatitis G Virus**  
Sharon E. Frey, Sharon M. Homan, Marcia Sokol-Anderson, Margarita Torralba Cayco, Prospero Cortorreal, Cora E. Musial, and Adrian Di Bisceglie
- 1039 A Cluster of Cases of *Mycobacterium szulgai* Keratitis That Occurred after Laser-Assisted In Situ Keratomileusis**  
Gary P. Holmes, Gregory B. Bond, Robert C. Fader, and Samuel F. Fulcher
- 1047 *Pseudomonas aeruginosa* Ventilator-Associated Pneumonia: Comparison of Episodes Due to Piperacillin-Resistant versus Piperacillin-Susceptible Organisms**  
J. L. Trouillet, A. Vuagnat, A. Combes, N. Kassis, J. Chastre, and C. Gibert
- 1055 Antiviral Susceptibility of Herpes Simplex Viruses and Its Clinical Correlates: A Single Center's Experience**  
N. Rabella, M. Otegui, R. Labeaga, P. Rodríguez, N. Margall, M. Gurguí, and G. Prats
- 1061 Prevalence and Predictors of Trimethoprim-Sulfamethoxazole Resistance among Uropathogenic *Escherichia coli* Isolates in Michigan**  
Patricia D. Brown, Alison Freeman, and Betsy Foxman
- 1067 Immunoglobulin A as a Serological Marker for the (Silent) Circulation of Poliovirus in an Inactivated Poliovirus-Vaccinated Population**  
Tineke Herremans, Tjeerd G. Kimman, Marina A. E. Conyn-van Spaendonck, Annemarie Buisman, Hester de Melker, Fritjofna Abbink, Paul Bijkerk, and Marion P. G. Koopmans
- 1076 A Study Evaluating the Efficacy, Safety, and Tolerability of Ertapenem versus Ceftriaxone for the Treatment of Community-Acquired Pneumonia in Adults**  
Guillermo Ortiz-Ruiz, Jose Caballero-Lopez, Ian R. Friedland, Gail L. Woods, Alexandra Carides, and the Protocol 018 Ertapenem Community-Acquired Pneumonia Study Group

# REVIEW ARTICLE

- 1084 Clinical Trials of Immunomodulatory Therapies in Severe Sepsis and Septic Shock**  
Jean-Louis Vincent, Qinghua Sun, and Marc-Jacques Dubois

## IMMUNOCOMPROMISED HOSTS

- 1094 **Definitions of Cytomegalovirus Infection and Disease in Transplant Recipients**

Per Ljungman, Paul Griffiths, and Carlos Paya

- 1098 **Opportunistic Infections in Patients with and Patients without Acquired Immunodeficiency Syndrome**

Kent A. Sepkowitz

## HIV/AIDS

- 1108 **Human Immunodeficiency Virus Superinfection and Recombination: Current State of Knowledge and Potential Clinical Consequences**

Jason T. Blackard, Daniel E. Cohen, and Kenneth H. Mayer

- 1115 **The Consistency of Adherence to Antiretroviral Therapy Predicts Biologic Outcomes for Human Immunodeficiency Virus-Infected Persons in Clinical Trials**

Sharon Mannheimer, Gerald Friedland, John Matts, Carroll Child, and Margaret Chesney, for the Terry Bein Community Programs for Clinical Research on AIDS

- 1122 **Indinavir-Associated Interstitial Nephritis and Urothelial Inflammation: Clinical and Cytologic Findings**

Jeffrey B. Kopp, Judith Falloon, Armando Filie, Andrea Abati, Christine King, Glen L. Hortin, JoAnn M. Mican, Ellen Vaughan, and Kirk D. Miller

- 1129 **Association of Adherence to *Mycobacterium avium* Complex Prophylaxis and Antiretroviral Therapy with Clinical Outcomes in Acquired Immunodeficiency Syndrome**

Susan E. Cohn, Erin Kammann, Paige Williams, Judith S. Currier, and Margaret A. Chesney

- 1137 **Abacavir Hypersensitivity Reaction**

Ross G. Hewitt

- 1143 **Absence of Opioid Withdrawal Symptoms in Patients Receiving Methadone and the Protease Inhibitor Lopinavir-Ritonavir**

Susan Clarke, Fiona Mulcahy, Colm Bergin, Helen Reynolds, Nicola Boyle, Michael Barry, and David J. Back

- 1146 **Emergence of Multiple Drug-Resistant Human Cytomegalovirus Variants in 2 Patients with Human Immunodeficiency Virus Infection Unresponsive to Highly Active Antiretroviral Therapy**

Fausto Baldanti, Stefania Paolucci, Aldo Parisi, Luca Meroni, and Giuseppe Gerna

## BRIEF REPORTS

- 1150 **Changes in the Plasma Lipid Profile as a Potential Predictor of Clinical Outcome in Dengue Hemorrhagic Fever**

Eric C. M. van Gorp, Catharina Suharti, Albert T. A. Mairuhu, Wil M. V. Dolmans, Johanna van der Ven, Pierre N. M. Demacker, and Jos W. M. van der Meer

- 1154 **Patients with Suspected Herpes Simplex Encephalitis: Rethinking an Initial Negative Polymerase Chain Reaction Result**

Ana A. Weil, Carol A. Glaser, Zahwa Amad, and Bagher Forghani

## CORRESPONDENCE

- 1158 **The Effects of Statins on Mortality Rates among Bacteremic Patients**

Tihomir Stefanec

- 1158 **Reply**

Angelike P. Liappis, Virginia L. Kan, and Gary L. Simon

- 1159 **Contamination of Hospital Water with *Aspergillus fumigatus* and Other Molds**

Adilia Warris, Andreas Voss, Tore G. Abrahamsen, and Paul E. Verweij

- 1160 **Caspofungin in Combination with Itraconazole for the Treatment of Invasive Aspergillosis in Humans**

Michael A. Rubin, Karen C. Carroll, and Barbara C. Cahill

- 1161 **Toxoplasmosis-Associated Deaths among Human Immunodeficiency Virus-Infected Persons in the United States, 1992-1998**

Jeffrey L. Jones, Meena Sehgal, and James H. Maguire

- 1162 **Shoulder Girdle Syndrome Revealing Primary HIV Infection**

S. Abad, E. Touze, P. Blanche, D. Sicard, D. Salmon-Ceron, J. L. Mas, and M. Zuber

- 1163 **Prevention of Travel-Associated Tuberculosis in the High-Risk Traveler**

Alan R. Lifson

- 1164 **Drug-Resistant *Streptococcus pneumoniae* in a Day Care Population**

Mary F. Bavaro, Adolpho C. Catbagan, Sybil A. Tasker, Diane E. Gray, Norman J. Waecker, and Mark R. Wallace



## i 1 May News

## MAJOR ARTICLES

- 1165 **Empiric Use of Trimethoprim-Sulfamethoxazole (TMP-SMX) in the Treatment of Women with Uncomplicated Urinary Tract Infections, in a Geographical Area with a High Prevalence of TMP-SMX-Resistant Uropathogens**  
R. Raz, B. Chazan, Y. Kennes, R. Colodner, E. Rottensterich, M. Dan, I. Lavi, W. Stamm, and the Israeli Urinary Tract Infection Group
- 1170 **Epidemiology of Acute Viral Gastroenteritis in Children Hospitalized in Rouen, France**  
Aude Marie-Cardine, Karine Gourlain, Olivier Mouterde, Nathalie Castignolles, Marie-France Hellot, Eric Mallet, and Claudine Buffet-Janvresse
- 1179 **Venous Thrombosis Associated with Peripherally Inserted Central Catheters: A Retrospective Analysis of the Cleveland Clinic Experience**  
Roy F. Chemaly, Joaquin Barbara de Parres, Susan J. Rehm, Karim A. Adal, Michelle V. Lisgaris, Debbie S. Katz-Scott, Susan Curtas, Steven M. Gordon, Ezra Steiger, Jeffrey Olin, and David L. Longworth
- 1184 **Disease-Specific Diagnosis of Coinfecting Tickborne Zoonoses: Babesiosis, Human Granulocytic Ehrlichiosis, and Lyme Disease**  
Peter J. Krause, Kathleen McKay, Charles A. Thompson, Vijay K. Sikand, Ronald Lentz, Timothy Lepore, Linda Closter, Diane Christianson, Sam R. Telford, David Persing, Justin D. Radloff, Andrew Spielman, and the Deer-Associated Infection Study Group
- 1192 **Exchange Transfusion as an Adjunct Therapy in Severe *Plasmodium falciparum* Malaria: A Meta-analysis**  
Mark S. Riddle, Jeffrey L. Jackson, John W. Sanders, and David L. Blazes
- 1199 **Parainfectious Encephalomyelorradiculitis Associated with Herpes Simplex Virus 1 DNA in Cerebrospinal Fluid**  
T. Kusuvara, M. Nakajima, H. Inoue, M. Takahashi, and T. Yamada

## REVIEW ARTICLE

- 1206 **Gastrointestinal and Hepatic Manifestations of Tickborne Diseases in the United States**  
Syed Ali Zaidi and Carol Singer

## PHOTO QUIZ

- 1213 **A Long-Suffering Patient with New Abdominal Pain**

## AGING AND INFECTIOUS DISEASES

- 1215 **Infectious Complications of Dental and Periodontal Diseases in the Elderly Population**  
Kenneth Shay

## EMERGING INFECTIONS

- 1224 **Hantavirus Pulmonary Syndrome: The New American Hemorrhagic Fever**  
C. J. Peters and Ali S. Khan

## HEALTHCARE EPIDEMIOLOGY

- 1232 **The Promise of Novel Technology for the Prevention of Intravascular Device-Related Bloodstream Infection. I. Pathogenesis and Short-Term Devices**  
Christopher J. Crnich and Dennis G. Maki

## HIV/AIDS

- 1243 **Randomized Phase II Trial of Atovaquone with Pyrimethamine or Sulfadiazine for Treatment of Toxoplasmic Encephalitis in Patients with Acquired Immunodeficiency Syndrome: ACTG 237/ANRS 039 Study**  
Keith Chirgwin, Richard Hafner, Catherine Lepout, Jack Remington, Janet Andersen, Elizabeth M. Bosler, Clemente Roque, Natasa Rajicic, Vincent McAuliffe, Philippe Morlat, D. T. Jayaweera, Jean-Louis Vilde, Benjamin J. Luft, and the AIDS Clinical Trials Group 237/Agence Nationale de Recherche sur le SIDA, Essai 039 Study Team
- 1251 **Morbidity and Mortality in South African Gold Miners: Impact of Untreated Disease Due to Human Immunodeficiency Virus**  
Elizabeth L. Corbett, Gavin J. Churchyard, Salome Charalambos, Badara Samb, Vicky Moloi, Tim C. Clayton, Alison D. Grant, Jill Murray, Richard J. Hayes, and Kevin M. De Cock
- 1259 **Hepatotoxicity Associated with Antiretroviral Therapy Containing Dual versus Single Protease Inhibitors in Individuals Coinfected with Hepatitis C Virus and Human Immunodeficiency Virus**  
Curtis L. Cooper, M. A. Parbhakar, and Jonathan B. Angel
- 1264 **Assessing Eosinophil Count as a Marker of Immune Activation among Human Immunodeficiency Virus-Infected Persons in Sub-Saharan Africa**  
T. L. Chorba, J. Nkengasong, T. H. Roels, B. Monga, C. Maurice, M. Maran, and G. Djemond

## ANSWER TO PHOTO QUIZ

- 1267 **A Long-Suffering Patient with New Abdominal Pain**

## BRIEF REPORTS

- 1269 **Outbreak of Enteroviral Infection in a Pediatric Hematology-Oncology Unit**  
Maria A. Moschovi, Maria Theodoridou, Vassiliki Papaevangelou, Sotiris Youroukos, Adamantia Nitsa, Panagiota Matsiota, and Fotini Tzortzatou-Stathopoulou

**1273 Subtype-Dependent Response of Hepatitis B Virus during the Early Phase of Lamivudine Treatment**

Bernhard Zöllner, Jörg Petersen, Peter Schäfer, Matthias Schröter, Rainer Laufs, Martina Sternecker, and Heinz-Hubert Feucht

**CORRESPONDENCE**

**1278 Tolerability of Antimalaria Drugs**

Ashley M. Croft and Andrew Herxheimer

**1278 Reply**

David Overbosch

**1279 Uveitis Due to *Leishmania major* as Part of HAART-Induced Immune Restitution Syndrome in a Patient with AIDS**

P. Blanche, B. Gombert, O. Rivoal, S. Abad, D. Salmon, and A. Brezin

**1280 *Strongyloides stercoralis* Eggs in a Urethral Smear after Bone Marrow Transplantation**

Beate Steiner, Diana Riebold, Daniel Wolff, Mathias Freund, and Emil C. Reisinger

**1281 Why Prior Fluconazole Use Is Associated with an Increased Risk of Invasive Mold Infections in Immunosuppressed Hosts: An Alternative Hypothesis**

Dimitrios P. Kontoyiannis

**1283 Reply**

Nina Singh

**1283 Safety of *Lactobacillus* Strains Used as Probiotic Agents**

Nikolaos V. Sipsas, Dimitrios I. Zonios, and Theodore Kordossis

**1284 Reply**

Seppo Salminen and Heikki Arvilommi

**1285 Meta-analysis of the Impact of HIV on the Infectiousness of Tuberculosis: Methodological Concerns**

Madhukar Pai, Michael McCulloch, and John M. Colford, Jr.

**1287 Reply**

Marina Malena and Mario Cruciani

**1288 Prevalence of the HIV Protease Mutation N88S Causing Hypersensitivity to Amprenavir**

Oscar Gallego, Angélica Corral, Carmen de Mendoza, and Vincent Soriano

**1289 Metabolic Acidosis in HIV-Infected Patients**

F. Bonnet, M. Bonarek, A. Abrij, J. Beylot, and P. Morlat

**BOOK REVIEWS**

**1291 Fungal Pathogenesis: Principles and Clinical Applications**

Edited by Richard A. Calderone and Ronald L. Cihlar

Reviewed by Neil M. Ampel

**1291 Cytokine Therapeutics in Infectious Diseases**

Edited by Steven M. Holland

Reviewed by Thomas C. Cesario

**1293 Errata**

**1294 ELECTRONIC ARTICLES**

**Group A Streptococcal Meningitis in Adults: Report of 41 Cases and a Review of the Literature**

Diederik van de Beek, Jan de Gans, Lodewijk Spanjaard, Shlomo Sela, Marinus Vermeulen, and Jacob Dankert

**Unsuspected *Toxoplasma gondii* Empyema in a Bone Marrow Transplant Recipient**

Maria Agnes Dawis, Edward J. Bottone, Adrianna Vlachos, and Margaret H. Burroughs

**Leptospirosis, Water Sports, and Chemoprophylaxis**

David A. Haake, Manjula Dundoo, Rumi Cader, Bernard M. Kubak, Rudy A. Hartskeerl, James J. Sejvar, and David A. Ashford

Volume 34 • Supplement 2

1 May 2002

**EMERGING INFECTIONS IN ASIA**

**S47 Introduction: Emerging Infections in Asia**

Tzou-Yien Lin

**S48 Nipah Virus Encephalitis Outbreak in Malaysia**

Sai Kit Lam and Kaw Bing Chua

**S52 The 1998 Enterovirus 71 Outbreak in Taiwan: Pathogenesis and Management**

Tzou-Yien Lin, Luan-Yin Chang, Shao-Hsuan Hsia, Yhu-Chering Huang, Cheng-Hsun Chiu, Chuen Hsueh, Shin-Ru Shih, Ching-Chuan Liu, and Mei-Hwan Wu

**S58 Outbreak of Avian Influenza A(H5N1) Virus Infection in Hong Kong in 1997**

Paul K. S. Chan

**S65 Pediatric Acquired Immunodeficiency Syndrome in Asia: Mother-to-Child Transmission**

Chitsanu Pancharoen and Usa Thisyakorn

## i 15 May News

## MAJOR ARTICLES

- 1295 Nosocomial Infections in Left Ventricular Assist Device Recipients**  
Preeti N. Malani, David B. S. Dyke, Francis D. Pagani, and Carol E. Chenoweth
- 1301 Effects of Large Dosages of Amoxicillin/Clavulanate or Azithromycin on Nasopharyngeal Carriage of *Streptococcus pneumoniae*, *Haemophilus influenzae*, Nonpneumococcal  $\alpha$ -Hemolytic Streptococci, and *Staphylococcus aureus* in Children with Acute Otitis Media**  
Faryal Ghaffar, Luz Stella Muniz, Kathy Katz, Jeanette L. Smith, Theresa Shouse, Phyllis Davis, and George H. McCracken, Jr.
- 1310 Epidemiology and Clinical Spectrum of Blastomycosis Diagnosed at Manitoba Hospitals**  
Tracy L. Crampton, R. Bruce Light, Greg M. Berg, Michael P. Meyers, Gary C. Schroeder, Earl S. Herschfield, and John M. Embil
- 1317 Malaria in Injection Drug Abusers in Vietnam**  
T. T. H. Chau, N. T. H. Mai, N. H. Phu, C. Luxemburger, L. V. Chuong, P. P. Loc, T. T. M. Trang, H. Vinh, B. M. Cuong, D. J. Waller, D. X. Sinh, N. P. J. Day, T. T. Hien, and N. J. White
- 1323 Influence of Serogroup on the Presentation, Course, and Outcome of Invasive Meningococcal Disease in Children in the Republic of Ireland, 1995–2000**  
C. Mary Healy, Karina M. Butler, E. O'Brian Smith, Owen P. Hensey, Terence Bate, Anne C. Moloney, Paul MacMahon, John Cosgrove, and Mary T. Cafferkey
- 1331 Spotless Rickettsiosis Caused by *Rickettsia slovaca* and Associated with *Dermacentor* Ticks**  
Didier Raoult, Andras Lakos, Florence Fenollar, Jean Beytout, Philippe Brouqui, and Pierre-Edouard Fournier
- 1337 Combination Antiviral Therapy for Ganciclovir-Resistant Cytomegalovirus Infection in Solid-Organ Transplant Recipients**  
Eleftherios Mylonakis, Wendy M. Kallas, and Jay A. Fishman
- 1342 Vertebral Osteomyelitis: Long-Term Outcome for 253 Patients from 7 Cleveland-Area Hospitals**  
Martin C. McHenry, Kirk A. Easley, and Geri A. Locker

## REVIEW ARTICLE

- 1351 The Role of Serum Antibodies in the Protection against Rotavirus Disease: An Overview**  
Baoming Jiang, Jon R. Gentsch, and Roger I. Glass

## HEALTHCARE EPIDEMIOLOGY

- 1362 The Promise of Novel Technology for the Prevention of Intravascular Device-Related Bloodstream Infection. II. Long-Term Devices**  
Christopher J. Crnich and Dennis G. Maki

## VACCINES

- 1369 Prevention of Yellow Fever in Persons Traveling to the Tropics**  
Thomas P. Monath and Martin S. Cetron

## EMERGING INFECTIONS

- 1379 *Rhodococcus equi*: An Emerging Pathogen**  
David M. Weinstock and Arthur E. Brown

## IMMUNOCOMPROMISED HOSTS

- 1386 Antifungal Chemoprophylaxis after Blood and Marrow Transplantation**  
John R. Wingard

## HIV/AIDS

- 1391 Can Antiretroviral Therapy Be Used to Prevent Sexual Transmission of Human Immunodeficiency Virus Type 1?**  
Mina Hosseini, Myron S. Cohen, Pietro L. Vernazza, and Angela D. M. Kashuba
- 1396 Factors Related to Lipodystrophy and Metabolic Alterations in Patients with Human Immunodeficiency Virus Infection Receiving Highly Active Antiretroviral Therapy**  
Marianne Savès, François Raffi, Jacqueline Capeau, Willy Rozenbaum, Jean-Marie Ragnaud, Christian Perronne, Arnaud Basdevant, Catherine Lepout, Geneviève Chêne, and the Antiprotéases Cohorte (APROCO) Study Group
- 1406 Prevalence, Incidence, and Persistence or Recurrence of Trichomoniasis among Human Immunodeficiency Virus (HIV)-Positive Women and among HIV-Negative Women at High Risk for HIV Infection**  
Susan Cu-Uvin, Hyejin Ko, Denise J. Jamieson, Joseph W. Hogan, Paula Schuman, Jean Anderson, and Robert S. Klein, for the HIV Epidemiology Research Study (HERS) Group

## BRIEF REPORTS

- 1412 Linezolid Treatment for Osteomyelitis Due to Vancomycin-Resistant *Enterococcus faecium***  
Michele Till, Richard L. Wixson, and Peter E. Pertel

- 1415 **Progressive Cutaneous Hyalohyphomycosis Due to *Paecilomyces lilacinus*: Rapid Response to Treatment with Caspofungin and Itraconazole**  
Amar Safdar

## CORRESPONDENCE

- 1418 **Predicting the Emergence of Antimicrobial Resistance**  
Paul H. Edelstein
- 1418 **Reply**  
Gary V. Doern
- 1420 **Antiviral Pathway Activation in Chronic Fatigue Syndrome and Acute Infection**  
Kenny De Meirleir, Robert J. Suhadolnik, Bernard Lebleu, and Patrick Englebienne
- 1421 **Reply**  
W. M. H. Behan, A. Chaudhuri, J. Gow, P. O. Behan, and I. McKay

- 1422 **Influenza Surveillance with Rapid Diagnostic Tests**  
Timothy M. Uyeki, Keiji Fukuda, and Nancy J. Cox

## BOOK REVIEW

- 1423 **Antimicrobial Pharmacodynamics in Theory and in Clinical Practice**  
Edited by Charles H. Nightingale, Takeo Murakawa, and Paul G. Ambrose  
Reviewed by Alexander J. Kallen

## 1424 ELECTRONIC ARTICLES

- Cutaneous Inoculation Blastomycosis**  
Nathan A. Gray and Larry M. Baddour
- Acute Terminal Ileitis Associated with Pneumococcal Bacteremia: Case Report and Review of Pneumococcal Gastrointestinal Diseases**  
Cathy A. Petti, S.-H. Ignatius Ou, and Daniel J. Sexton

Volume 34 • Number 11

1 June 2002

## i 1 June News

## MAJOR ARTICLES

- 1425 **Comparison of Ampicillin-Sulbactam and Imipenem-Cilastatin for the Treatment of *Acinetobacter* Ventilator-Associated Pneumonia**  
G. Christopher Wood, Scott D. Hanes, Martin A. Croce, Timothy C. Fabian, and Bradley A. Boucher
- 1431 **Reappraisal of Community-Acquired Bacteremia: A Proposal of a New Classification for the Spectrum of Acquisition of Bacteremia**  
Yardena Siegman-Igra, Boaz Fourer, Ruth Orni-Wasserlauf, Yoav Golan, Aliza Noy, David Schwartz, and Michael Giladi
- 1440 **Once-Daily Intravenous Cefazolin Plus Oral Probenecid Is Equivalent to Once-Daily Intravenous Ceftriaxone Plus Oral Placebo for the Treatment of Moderate-to-Severe Cellulitis in Adults**  
M. Lindsay Grayson, Malcolm McDonald, Kimberley Gibson, Eugene Athan, Wendy J. Munckhof, Phillip Paull, and Fran Chambers
- 1449 **Evaluation of a Whole-Blood Interferon- $\gamma$  Release Assay for the Detection of *Mycobacterium tuberculosis* Infection in 2 Study Populations**  
Bahrie Bellete, Jacqueline Coberly, Grace Link Barnes, Chiew Ko, Richard E. Chaisson, George W. Comstock, and William R. Bishai
- 1457 **Editorial Commentary: Is the In Vitro Interferon- $\gamma$  Release Assay an Adequate Replacement for the Tuberculin Skin Test?**  
David Nadal
- 1460 **Ertapenem Once Daily Versus Piperacillin-Tazobactam 4 Times per Day for Treatment of Complicated Skin and Skin-Structure Infections in Adults: Results of a Prospective, Randomized, Double-Blind Multicenter Study**  
Donald R. Graham, Christopher Lucasti, Osvaldo Malafaia, Ronald L. Nichols, Paul Holtom, Nora Quintero Perez, Andrea McAdams, Gail L. Woods, T. Paulette Ceesay, Richard Gesser, and the Ertapenem Complicated Skin and Skin Structure Infections Study Group
- 1469 **Bacteremia Due to Viridans Group Streptococci with Diminished Susceptibility to Levofloxacin among Neutropenic Patients Receiving Levofloxacin Prophylaxis**  
Raymond R. Razonable, Mark R. Litzow, Yasmin Khaliq, Kerryll E. Piper, Mark S. Rouse, and Robin Patel
- 1475 **Nosocomial Outbreak of *Exophiala jeikei* Fungemia Associated with Contamination of Hospital Water**  
Marcio Nucci, Tiymomi Akiti, Gloria Barreiros, Fernanda Silveira, Sanjay G. Revankar, Brian L. Wickes, Deanna A. Sutton, and Thomas F. Patterson
- 1481 **Linezolid versus Vancomycin for the Treatment of Methicillin-Resistant *Staphylococcus aureus* Infections**  
Dennis L. Stevens, Daniel Herr, Harry Lampiris, John Lee Hunt, Donald H. Batts, Barry Hafkin, and the Linezolid MRSA Study Group
- 1491 **Will Genetic Testing Alter the Management of Disease Caused by Infectious Agents? A Cost-Effectiveness Analysis of Gene-Testing Strategies for Prevention of Rheumatic Fever**  
Charles H. King, Diana F. Fischler, and Richard D. Gerkin

- 1500 **An Outbreak of *Mycobacterium chelonae* Infection Following Liposuction**  
Hildy Meyers, Barbara A. Brown-Elliott, Douglas Moore, Jan Curry, Cecile Truong, Yansheng Zhang, and Richard J. Wallace, Jr.

- 1508 **Novel Prevention Program for Trichinellosis in Inuit Communities**  
Jean-François Proulx, J. Dick MacLean, Theresa W. Gyorkos, Daniel Leclair, Anne-Katrin Richter, Bouchra Serhir, Lorry Forbes, and Alvin A. Gajadhar

#### **SURFING THE WEB**

- 1515 **Systematic Reviews of Infectious Diseases**  
Steven K. Schmitt and Neil Mehta

#### **EMERGING INFECTIONS**

- 1524 **Infections Caused by Viridans Streptococci in Patients with Neutropenia**  
Allan R. Tunkel and Kent A. Sepkowitz

#### **HIV/AIDS**

- 1530 **Clinical Experience with Human Immunodeficiency Virus-Infected Older Patients in the Era of Effective Antiretroviral Therapy**  
Richard M. Grimes, Max E. Otiniano, Maria C. Rodriguez-Barradas, and Dejian Lai

#### **CORRESPONDENCE**

- 1534 **Patient Self-Report as a Marker of Adherence to Antiretroviral Therapy**  
Choi Fung Ho, Oi Wah Fong, and Ka Hing Wong
- 1535 **Interleukin-1 Receptor Antagonist Gene Polymorphism and Cancer**  
Jalid Sehoul and Alexander Mustea

- 1536 **Interleukin-1 Receptor Antagonist Gene Polymorphism, Infectious Burden, and Coronary Artery Disease**  
Johann Auer, Robert Berent, Thomas Weber, and Bernd Eber

- 1537 **Candidemia in the Surgical Intensive Care Unit**  
Vladimir C. Krcmery, Jr. and Robert Babela

- 1538 **The Value of Suction Drainage Fluid Culture during Clean Orthopedic Surgery**  
P. Berthelot, R. Girard, F. Mallaval, A. C. Vautrin, F. Lucht, and J. Fabry

- 1540 **Errata**

#### **1541 ELECTRONIC ARTICLES**

##### **Epidemiologic and Immunologic Findings for the Subclinical Form of *Leishmania braziliensis* Infection**

Ivonise Follador, Cibele Araújo, Olívia Bacellar, Clarissa B. Araújo, Lucas P. Carvalho, Roque P. Almeida, and Edgar M. Carvalho

##### ***Campylobacter upsaliensis*: Another Pathogen for Consideration in the United States**

Jaime A. Labarca, Joan Sturgeon, Lee Borenstein, Nancy Salem, Sydney M. Harvey, Eleanor Lehnkering, Roshan Reporter, and Laurene Mascola

**Prosthetic Valve Endocarditis Due to Vancomycin-Resistant *Enterococcus faecium*: Treatment with Chloramphenicol plus Minocycline**  
Amar Safdar, Charles S. Bryan, Shawn Stinson, and Donald E. Saunders Jr.

Volume 34 • Supplement 3

1 June 2002

## **THE NEED TO IMPROVE ANTIMICROBIAL USE IN AGRICULTURE**

### **Ecological and Human Health Consequences**

- S71 **Introduction**  
Michael Barza, Sherwood Gorbach, and Stephen J. DeVincent
- S73 **Select Findings and Conclusions**  
FAAIR Scientific Advisory Panel
- S76 **Policy Recommendations**  
FAAIR Scientific Advisory Panel
- S78 **Emergence, Spread, and Environmental Effect of Antimicrobial Resistance: How Use of an Antimicrobial Anywhere Can Increase Resistance to Any Antimicrobial Anywhere Else**  
Thomas F. O'Brien
- S85 **Generally Overlooked Fundamentals of Bacterial Genetics and Ecology**  
Anne O. Summers
- S93 **Antimicrobial Use and Resistance in Animals**  
Scott A. McEwen and Paula J. Fedorka-Cray
- S107 **Uses of Antimicrobials in Plant Agriculture**  
Anne K. Vidaver
- S111 **Human Diseases Caused by Foodborne Pathogens of Animal Origin**  
Morton N. Swartz



- S123 **Potential Mechanisms of Increased Disease in Humans from Antimicrobial Resistance in Food Animals**  
Michael Barza

- S126 **Excess Infections Due to Antimicrobial Resistance: The "Attributable Fraction"**  
Michael Barza and Karin Travers

- S131 **Morbidity of Infections Caused by Antimicrobial-Resistant Bacteria**  
Karin Travers and Michael Barza

- S135 **Review of Assessments of the Human Health Risk Associated with the Use of Antimicrobial Agents in Agriculture**  
John C. Bailar III and Karin Travers

- S144 **APUA Acknowledgments**

Volume 34 • Number 12

15 June 2002

i 15 June News

**MAJOR ARTICLES**

- 1543 **Changes in Antibiotic-Prescribing Practices and Carriage of Penicillin-Resistant *Streptococcus pneumoniae*: A Controlled Intervention Trial in Rural Alaska**  
Thomas W. Hennessy, Kenneth M. Petersen, Dana Bruden, Alan J. Parkinson, Debby Hurlburt, Marilyn Getty, Benjamin Schwartz, and Jay C. Butler

- 1551 **Virus Markers Associated with Vertical Transmission of Human T Lymphotropic Virus Type 1 in Jamaica**  
Michie Hisada, Elizabeth M. Maloney, Takashi Sawada, Wendell J. Miley, Paulette Palmer, Barrie Hanchard, James J. Goedert, and Angela Manns

- 1558 **Control-Group Selection Importance in Studies of Antimicrobial Resistance: Examples Applied to *Pseudomonas aeruginosa*, Enterococci, and *Escherichia coli***  
Anthony D. Harris, Matthew H. Samore, Marc Lipsitch, Keith S. Kaye, Eli Perencevich, and Yehuda Carmeli

- 1564 **Editorial Commentary: Looking for Risk Factors for the Acquisition of Antibiotic Resistance: A 21st-Century Approach**  
David L. Paterson

- 1568 **JC Virus Load in Progressive Multifocal Leukoencephalopathy: Analysis of the Correlation between the Viral Burden in Cerebrospinal Fluid, Patient Survival, and the Volume of Neurological Lesions**  
Dario García de Viedma, Marisol Díaz Infantes, Pilar Miralles, Juan Berenguer, Mercedes Marín, Lucía Muñoz, and Emilio Bouza

- 1576 ***Streptococcus agalactiae* Infective Endocarditis: Analysis of 30 Cases and Review of the Literature, 1962–1998**  
A. Sambola, J. M. Miro, M. P. Tornos, B. Almirante, A. Moreno-Torrico, M. Gurgui, E. Martínez, A. Del Río, M. Azqueta, F. Marco, J. M. Gatell, and the *Streptococcus agalactiae* Endocarditis Study Group

- 1585 **Conditions Associated with Leukocytosis in a Tertiary Care Hospital, with Particular Attention to the Role of Infection Caused by *Clostridium difficile***  
Anna Wanahita, Elizabeth A. Goldsmith, and Daniel M. Musher

- 1593 **Outbreak of Leptospirosis among Triathlon Participants and Community Residents in Springfield, Illinois, 1998**  
Juliette Morgan, Shari L. Bornstein, Adam M. Karpati, Michael Bruce, Carole A. Bolin, Constance C. Austin, Christopher W. Woods, Jairam Lingappa, Carl Langkop, Belinda Davis, Donald R. Graham, Mary Proctor, David A. Ashford, Mary Bajani, Sandra L. Bragg, Kathleen Shutt, Bradley A. Perkins, and Jordan W. Tappero, for the Leptospirosis Working Group

- 1600 **Nosocomial Bacteremia Caused by Antibiotic-Resistant Gram-Negative Bacteria in Critically Ill Patients: Clinical Outcome and Length of Hospitalization**  
Stijn Blot, Koenraad Vandewoude, Dirk De Bacquer, and Francis Colardyn

- 1607 **Empiric Treatment of Community-Acquired Pneumonia with Fluoroquinolones, and Delays in the Treatment of Tuberculosis**  
Kelly E. Dooley, Jonathan Golub, Fernando S. Goes, William G. Merz, and Timothy R. Sterling

**REVIEW ARTICLES**

- 1613 **Resistance among *Streptococcus pneumoniae*: Implications for Drug Selection**  
Peter C. Appelbaum

- 1621 **Decision-Making on the Use of Antimicrobial Prophylaxis for Dental Procedures: A Survey of Infectious Disease Consultants and Review**  
Peter B. Lockhart, Michael T. Brennan, Philip C. Fox, H. James Norton, Daniel B. Jernigan, Larry J. Strausbaugh, and the Infectious Diseases Society of America Emerging Infections Network

**TRAVEL MEDICINE**

- 1627 **Infections in Hispanic Immigrants**  
A. Clinton White, Jr., and Robert L. Atmar

## SURFING THE WEB

- 1633 **Legionella Resources on the World Wide Web**  
Stefano Bassetti and Andreas F. Widmer

## BRIEF REPORTS

- 1641 **Reversible Myelofibrosis Induced by Tuberculosis**  
Jean-François Viallard, Marie Parrens, Jean-Michel Boiron,  
Jeanne Texier, Patrick Mercie, and Jean-Luc Pellegrin

- 1644 **Reinfection with *Ehrlichia chaffeensis* in a Liver Transplant Recipient**

Allison M. Liddell, John W. Sumner, Christopher D. Paddock,  
Yasuko Rikihisa, Ahmet Unver, Richard S. Buller,  
and Gregory A. Storch

- 1648 **Treatment of *Scedosporium apiospermum* Brain Abscesses with Posaconazole**

Ingo K. Mellinghoff, Drew J. Winston, Geoffrey Mukwaya,  
and Gary J. Schiller

- 1651 **Serotonin Syndrome and Linezolid**

Christine L. Wigen and Matthew B. Goetz

- 1653 **Attributable Mortality of *Stenotrophomonas maltophilia* Bacteremia**

Esin Senol, Jeffrey DesJardin, Paul C. Stark, Laurie Barefoot,  
and David R. Snyderman

## CORRESPONDENCE

- 1657 **Evaluation of the Efficacy of Intranasal Zinc Gluconate**

Samuel C. Yiu

- 1657 **Reply**

Ronald B. Turner

- 1658 **Thrombosis, Vasculitis, and Cytomegalovirus Infection**

Jaime A. Labarca, Pablo A. Gaete, Miguel Gutiérrez,  
and Carlos M. Pérez

- 1659 **Reply**

David M. Markovitz, Scott D. Gitlin, and Ighovwerha Oforokun

- 1660 **Interleukin-2, Ganciclovir, and High-Dose Zidovudine for the Treatment of AIDS-Associated Primary Central Nervous System Lymphoma**  
David M. Aboulafia

- 1662 **Beekeeper's Arthritis Caused by *Pseudomonas aeruginosa***

I. Montes and M. Torresano

## BOOK REVIEWS

- 1663 **Current Diagnosis and Treatment in Infectious Diseases**

Edited by Walter R. Wilson and Merle A. Sande  
Reviewed by Young S. Kim

- 1664 **Tropical Medicine and Parasitology, 5th Edition**

Written by Wallace Peters and Geoffrey Pasvol  
Reviewed by Keith B. Armitage

- 1664 **Toxoplasmosis: A Comprehensive Clinical Guide**

Edited by David H. M. Joynt and Tim G. Wreghitt  
Reviewed by Herbert B. Tanowitz and Louis M. Weiss

- 1665 **New Books Received**

## 1666 ELECTRONIC ARTICLES

**Use of Ventriculoperitoneal Shunts to Treat Uncontrollable Intracranial Hypertension in Patients Who Have Cryptococcal Meningitis without Hydrocephalus**

Po-Chou Liliang, Cheng-Loong Liang, Wen-Neng Chang, Kang Lu,  
and Cheng-Hsien Lu

**Failure of Early Treatment of Cutaneous Leishmaniasis in Preventing the Development of an Ulcer**

Paulo Machado, Cibele Araújo, Andréa T. da Silva, Roque P. Almeida,  
Argemiro D'Oliveira, Jr., Achilés Bittencourt, and Edgar M. Carvalho

**Wound Infection with *Neisseria weaveri* and a Novel Subspecies of *Pasteurella multocida* in a Child Who Sustained a Tiger Bite**

Christian M. Capitini, Inmaculada A. Herrero, Robin Patel,  
Michael B. Ishitani, and Thomas G. Boyce

- S145 **The Past and Present Threat of Rickettsial Diseases to Military Medicine and International Public Health**

Daryl J. Kelly, Allen L. Richards, Joseph Temenak, Daniel Strickman,  
and Gregory A. Dasch

**AFGHANISTAN: HEALTH CHALLENGES FACING DEPLOYED TROOPS, PEACEKEEPERS,  
AND REFUGEES****S171 Endemic Infectious Diseases of Afghanistan**

Mark R. Wallace, Braden R. Hale, Gregory C. Utz, Patrick E. Olson,  
Kenneth C. Earhart, Scott A. Thornton, and Kenneth C. Hyams

**S173 Endemic Infectious Diseases of Military  
Importance**

S173 Malaria

S176 Diarrheal Diseases

S177 Typhoid Fever

S178 Viral Hepatitis

S180 Leishmaniasis

S182 Arboviral Diseases

S187 Respiratory Diseases

S187 Tuberculosis

S188 Rickettsial Disease and Relapsing Fever

S192 Anthrax

S194 Leptospirosis

S194 Rabies

S194 Sexually Transmitted Diseases

S195 Plague

**S195 Endemic Infectious Diseases of Nonmilitary  
Importance**

S195 Polio

S196 Measles

S197 Diphtheria

S197 Tetanus

S198 Leprosy

S198 Echinococcal Infections

**S208 Protecting the Health of United States Military  
Forces in Afghanistan: Applying Lessons Learned  
since the Gulf War**

Kenneth C. Hyams, James Riddle, David H. Trump,  
and Mark R. Wallace

**S215 Challenges and Opportunities for Humanitarian  
Relief in Afghanistan**

Trueman W. Sharp, Frederick M. Burkle, Jr., Andrew F. Vaughn,  
Rashid Chotani, and Richard J. Brennan